

# FY2011 Tsongas Federal Funding Requests

## Commerce-Justice-Science

**Project Name:** Comprehensive Substance Abuse Education and Treatment Program

**Request Amount:** \$280,000

**Intended Recipient:** Essex County Sheriff's Department

**Full Street Address of the Intended Recipient:** 20 Manning Avenue, Middleton, MA 01949

**Description:** The requested funding will be used to continue the Essex County Sheriff Department's "Project TND" for substance abuse education and treatment. The program is modeled on a previously used program that has demonstrated significant successes. The funding covers the clinical portions of the program, and books and materials for participating students. The local benefit of this program will be the reduction of drug use and abuse by teenagers in the Essex County area in at least 10 area high schools during the 2010-2011 school year. The reduction in drug use should correlate with a reduction in criminality among program participants, which will in turn reduce the burden on the police, court system, and the correctional system. After this program has been evaluated and proven to be successful it will be available for replication by similar agencies throughout Massachusetts, New England, and nationally.

**Project Name:** Essex Regional Emergency Communications Center Records Management Software

**Request Amount:** \$500,000

**Intended Recipient:** Essex County Sheriff's Department

**Full Street Address of the Intended Recipient:** 20 Manning Avenue, Middleton, MA 01949

**Description:** The requested funding will be used for the purchase, licensure, training and support of Records Management Software (RMS), which will enable the Essex County Sheriff's Department to effectively coordinate large-scale public safety or disaster response through the Regional Emergency Communications Center. The Essex Regional Emergency Communications Center (Essex RECC) will provide interoperable communications between first responders within Essex County, MA. Consolidating into one Regional Operations Center in Essex County will enhance 911 services including police, fire and emergency medical dispatch for member communities. The Records Management Software is critical to achieving an effective and comprehensive regional approach to law enforcement and emergency response.

**Project Name:** Court Appointed Special Advocates

**Request Amount:** \$100,000

**Intended Recipient:** Family Service, Inc.

**Full Street Address of the Intended Recipient:** 430 North Canal Street, Lawrence, MA 01840

**Description:** The requested funds will be used to support two full-time CASA staff positions that provide management and oversight to a cadre of 45 community volunteers who advocate on behalf of 100 abused and neglected children with cases before the Lawrence Juvenile Court. CASA volunteers are appointed by the court as guardians ad litem and are responsible for being fact finders, case monitors, mediators, information and resource brokers, and, most importantly, advocates for the children. They frequently meet with all parties on the case, including social workers, lawyers, doctors, and report to the presiding judge on what they feel needs to happen to protect the best interests of the child. In all their work, CASA volunteers advocate to make sure that the needs of the children come first. The Victims of Child Abuse Act of 1990, as amended (Public Law 101-647), mandates that all abused and neglected children involved in dependency proceedings receive timely, sensitive, and effective advocacy. The Act directs that a court-appointed special advocate shall be available to every victim of child abuse or neglect in the United States that needs such an advocate. The use of tax payer dollars for the CASA Program prevents the ongoing need for expenditures on continued child welfare services, long term placements, and future criminal activity.

**Project Name:** Fleet Enhancement Project

**Request Amount:** \$410,000

**Intended Recipient:** Lowell Police Department

**Full Street Address of the Intended Recipient:** 50 Arcand Drive, Lowell, MA 01852

**Description:** The requested funding will be used to purchase ten cruisers and 110 GPS units. Currently, the LPD has 46 marked and 56 unmarked cruisers. The number of marked cruisers has declined 34% since 2008 and the number of unmarked cruisers has decreased 11 percent. The reduced fleet is resulting in less cruiser coverage in the city. The LPD is also concerned that if the fleet continues to decrease to dangerously low levels, response times may be negatively affected. The new cruisers will increase the quality of policing services in Lowell. The increased number of cruisers will enhance police coverage in the city and will significantly enhance officer safety. The GPS units will also ensure that officers are properly patrolling the city and maximizing the use of taxpayer dollars. As the LPD will be one of the first police departments in the area to implement GPS systems in cruisers, the department will work to share our experience such that this useful technology can be successfully replicated in other communities.

**Project Name:** Massachusetts Police Leadership Institute Program

**Request Amount:** \$100,000

**Intended Recipient:** Lowell Police Department

**Full Street Address of the Intended Recipient:** 50 Arcand Drive, Lowell, MA 01852

**Description:** The funding will be used to promote and execute the Massachusetts Police Leadership Institute Program (MPLI) at the Lowell Police Department's Training Institute. MPLI is a two-week training that provides mid-level police executives with the knowledge and skills required to administer police units, programs and operations. The instructors are experts who have spent their careers studying law enforcement and police professionals who have proven management and leadership experience. Due to budgetary constraints, the LPD did not host MPLI in 2009. The funding will be used to restart the program, hire instructors and promote regional participation. The LPD seeks to increase and expand participation in the program with other agencies in the New England region and anticipates that fees associated with participation will allow the program to be self-sustaining in future years.

**Project Name:** Regional Crime Analysis Resource Center

**Request Amount:** \$800,000

**Intended Recipient:** Middlesex Community College

**Full Street Address of the Intended Recipient:** 33 Kearney Square, Lowell, MA 01852

**Description:** The requested funding will support the development of the Regional Crime and Analysis Resource Center by Middlesex Community College (MCC) and the North Eastern Massachusetts Law Enforcement Council (NEMLEC).

Specifically, the appropriation will fund a Crime Analyst/Program Coordinator, curriculum development, implementation of a regional crime analysis internship program between the college and NEMLEC, technology and software needed for training programs, community program expenses to share data with local communities, resource materials for training, and training liaisons for the college. The Regional Crime Analysis Resource Center will provide the 48 police departments and 2 sheriff's offices that comprise NEMLEC with the tools and skills necessary to ensure that cross-jurisdictional patterns of crime are identified, analyzed and shared. Currently, many cross-jurisdictional crime patterns, such as thefts, drug trafficking, and gang-related activity go unnoticed as a mechanism is lacking to help individual departments recognize that patterns exist on a regional basis. Additionally, the college-level course proposed by the project will provide MCC students with an innovative course in crime analysis that can be replicated throughout the state's community college system. Further, the proposed regional crime analysis resource center and the related community college course can serve as a national model for law enforcement agencies and public institutions of higher education.

**Project Name:** Sex Offender Registration Project

**Request Amount:** \$90,000

**Intended Recipient:** Lowell Police Department

**Full Street Address of the Intended Recipient:** 50 Arcand Drive, Lowell, MA 01852

**Description:** The requested funding will pay for a civilian coordinator and assistant who are responsible for registering sex offenders in the City of Lowell as required by the Commonwealth of Massachusetts' Sex Offender Registration Board (SORB). The coordinator will monitor and track all sex offenders that are required to register in Lowell and the assistant will support the coordinator during the day and will also be assigned to some night shifts to assist offenders that register during the evening hours. There are 263 Level 2 and 3 sex offenders in Lowell, a 10% increase from the same time last year. The LPD's Sex Offender Registration program will help to ensure the safety of all those that live, work and visit the City of Lowell.

**Project Name:** Juvenile Justice Program

**Request Amount:** \$1,283,396

**Intended Recipient:** Middlesex District Attorney's Office

**Full Street Address of the Intended Recipient:** 15 Commonwealth Avenue, Woburn, MA 01801

**Description:** The requested funding will be directed toward the creation of the Middlesex District Attorney's Office Juvenile Justice Program ("MJJP"). The mission of the MJJP is to divert at-risk youth from the criminal justice system by strengthening MDAO's community-based approach to juvenile offenders, integrating the diversion program with the prosecution team handling criminal matters, developing educational anticrime and antiviolenence curriculum for youths, and expanding county-wide MDAO's pre-complaint diversion program. The funding will be used primarily for staff to help further

develop a national model for preventing and intervening in crime at the earliest stages, while working in a coordinated effort on the back-end to prosecute crime.

**Project Name:** Trauma Intervention Program of Merrimack Valley

**Request Amount:** \$60,000

**Intended Recipient:** Trauma Intervention Program of Merrimack Valley

**Full Street Address of the Intended Recipient:** 167 East Street, Methuen, MA 01844

**Description:** The funding will be used to support the Trauma Intervention Program (TIP) of Merrimack Valley. At the request of local police or fire departments or hospital staff, and free of charge, TIP provides on-scene trauma advocacy/support to child and adult victims of crime and other trauma-related incidents in Andover, Haverhill, Lawrence, Methuen, and North Andover. Over the past eighteen years, TIP of Merrimack Valley and its volunteers have served over 17,000 child and adult trauma/crime victims and Emergency First Responders. Funding will support three fulltime staff and twenty-eight volunteers and will be used for training, providing equipment and educational materials, rent, and salaries.

**Project Name:** Transitional Employment Program

**Request Amount:** \$250,000

**Intended Recipient:** United Teen Equality Center

**Full Street Address of the Intended Recipient:** 34 Hurd Street, Lowell, MA 01852

**Description:** The requested funding would be used to support the United Teen Equality Center's (UTEC) transitional employment program. The funding will support a transitional employment director, a crew supervisor, a case manager, and associated stipends and materials necessary to execute the program. The transitional employment program offers the key to re-engaging young adults deemed "hard to employ" and sets them on their first steps towards self sufficiency. The program provides these individuals with additional education, training and employment services that will enable them to move towards economic independence. The program will: 1) operate one work crew to fulfill contracts in the areas of cleaning, painting, maintenance, snow removal, landscaping and other types of general labor; 2) provide employment and support services to 25 young people/year who work 26 hours a week for an average of 9 to 12 months, building work experience and demonstrating their reliability while ensuring advancement in their next job; 3) provide 4-8 hours/week of education, employment readiness, and life skills programming to youth; 4) provide consequences for poor performance or attendance. When a young person loses a work slot, the case manager will be present to help him take the steps necessary to return to work, using their established relationship to re-engage the young person in a re-hire process for the work component; 5) graduate youth from the transitional program into permanent jobs after 60 consecutive days on the job.

**Project Name:** Initiative for At-Risk Youth

**Request Amount:** \$800,000

**Intended Recipient:** YWCA of Greater Lawrence

**Full Street Address of the Intended Recipient:** 38 Lawrence St., Lawrence, MA 01840

**Description:** The Initiative for At-Risk Youth is designed to address the significant issues of violent behavior, gang involvement and early and/or coerced sexual activity that stem from the lack of youth engagement in the community of Lawrence. Lawrence has a per capita income of only \$13,360, which makes it one of the poorest communities in the state and the nation. Among Lawrence's poorest are at least a fifth of Lawrence's single female-headed families who live below the federal poverty level. In addition, Lawrence reports the highest high school dropout and unemployment rates in the state of Massachusetts, as well as ranks in the top 5 for teen pregnancy rates. This funding will enable the YWCA to provide constructive skill and relationship-building out-of-school opportunities to deter youth from engaging in activities that breed legal problems and help them make a healthy transition to adulthood. The YWCA will provide conflict resolution/violence prevention education to youth and families on-site and in the community at large. Target populations include: grade school, middle school, and high school youth, as well as specialized services to youth previously victimized by violence. Staff will tailor program detail and length based on target populations and implement workshops on-site at the YWCA and other community settings. Staff will assist youth with the skills, practice, and the resiliency needed so they may cope more effectively and avoid the escalation of potentially violent situations. This will be learned through the types of engagement and experiences known to foster the development of positive self-esteem, healthy communication with others and team-building skills. The YWCA will also continue to lead after-school prevention and personal asset building programs in four sites year-round throughout the city, as well as a summer day camp for inner-city children at rural Captain's Pond. Engagement of youth and their families during out-of-school hours is critical to keeping kids safe and out of trouble.

## Defense

**Project Name:** Materials and Finite Element Simulations of Moldable Ceramic Composite Materials

**Request Amount:** \$2,225,000

**Intended Recipient:** University of Massachusetts Lowell

**Full Street Address of the Intended Recipient:** Two Solomon Way, Lowell, Massachusetts 01854

**Description:** The requested funding will be used to conduct materials and finite element simulations of moldable ceramic composite materials. The purpose of this research is to achieve the protection performance needed for higher caliber arms and more powerful IEDs in moldable ceramic composites for vehicle protection. Finite element simulations of ballistic response will be used to guide size, shape, and distribution of the ceramic nuggets, as well as the tailoring of the ceramic nugget-polymer resin interface. Chemical and mechanical modifications of the ceramic nugget surface to achieve the desired interface characteristics (e.g., bond strength) will be studied and characterized using a combination of mechanical testing and microscopy. Improvements in field repair (e.g., time and quality) will also be developed through better understanding of the flow, wetting, and cure kinetics of filled and unfilled polymer resin. Should the funding be awarded, it would be executed through the Army Armament Research, Development and Engineering Center.

**Project Name:** Nanomanufacturing of Integrated Smart Materials Systems

**Request Amount:** \$4,000,000

**Intended Recipient:** University of Massachusetts Lowell

**Full Street Address of the Intended Recipient:** Two Solomon Way, Lowell, Massachusetts 01854

**Description:** The requested funding will be used for a three year program that will focus on developing innovative nanomanufacturing processes for new materials that will serve as platforms for enhanced systems for warfighter clothing and equipment, as well as vehicle structures. Nanotechnology holds unprecedented promise in creating portable sensors that can rapidly apprise soldiers of battlefield environmental conditions and monitor the structural health of mechanical systems, such as bridges, aircraft, and body armor. This program is developing a suite of multifunctional sensors with high sensitivity and selectivity that ultimately will be integrated into single compact systems for the warfighter. This goal requires addressing multiple issues, such as nanoscale fabrication methods for preparation of the sensor substrate system comprised of detector arrays, functionalizing the detectors for desired specificity; and optimizing response and reliability. The funding would support existing jobs at the facility and may create an additional 20 jobs. Should the funding be awarded, it would be executed through the Materials Application Branch of the Army Research Laboratory.

## Energy and Water

**Project Name:** Feasibility Study for Renewable Energy Options

**Request Amount:** \$50,000

**Intended Recipient:** D'Youville Senior Care

**Full Street Address of the Intended Recipient:** 981 Varnum Avenue, Lowell, MA 01854

**Description:** The requested funding would be used to conduct a professional feasibility study of potentially renewable energy opportunities for D'Youville Senior Care. The goal of the study would be reducing current energy utilization by 25%. D'Youville Senior Care is a non-profit 208-bed nursing facility, providing compassionate care for over 600 seniors annually from throughout Greater Lowell. This study would help determine utilization of open spaces on the campus with the goal of developing renewable energy systems. The target energy reduction would be 25%, resulting in over a \$100,000 savings annually, enabling them to create 4 new full-time clinical positions in perpetuity. There are also potential partnerships with UMASS Lowell and other colleges for implementation of renewable energy mechanisms, ongoing maintenance and potential case studies.

**Project Name:** Comprehensive Energy Conservation, Energy Efficiency and Renewable Energy/Green Technology Project

**Request Amount:** \$5,000,000

**Intended Recipient:** Holy Family Hospital

**Full Street Address of the Intended Recipient:** 70 East Street, Methuen, MA 01844

**Description:** The requested funding will be used for the purchase and installation of energy conservation, energy efficiency and renewable energy/green technology upgrades. Holy Family Hospital plans to begin construction on a new, shovel-ready 26,650 square foot Emergency Department (ED) Building. This will increase capacity and will dramatically improve patient flow and access to services within the facility. This project will help the Hospital reduce overhead costs without reducing labor. Savings can be invested toward advancing quality of patient care, new or expanded facilities, training, increasing salaries and/or hiring of additional employees – all of which would enhance the project's benefit to the local community. The Hospital is also working to enhance its surge capacity to handle potential natural disaster/terrorism scenarios and a portion of this project would have a secondary benefit of helping with those concerns.

**Project Name:** Lancaster Landfill Solar Facility

**Request Amount:** \$5,000,000

**Intended Recipient:** Town of Lancaster

**Full Street Address of the Intended Recipient:** 695 Main Street, Suite #1, Lancaster, MA 01523

**Description:** This funding would be used by the Town of Lancaster to support the construction of a renewable energy solar facility on a capped landfill. This project will serve as a model for communities across the country. The energy produced at the facility will be used to offset the municipalities' energy use for its public buildings, as well as stimulate the local economy through investment and the creation of an estimated 25 jobs for design, engineering, construction and maintenance. The

facility will produce approximately the same amount of electricity as 210,400 barrels of oil. It will offset 5,268,000 lbs of CO2 emissions annually, and will reduce Nitrogen Oxide by 45,000 lbs over 30 years.

**Project Name:** Plasma Assisted Sludge Oxidation and Heat Recovery/Steam Generator Installation

**Request Amount:** \$5,000,000

**Intended Recipient:** Lowell Regional Wastewater Utility

**Full Street Address of the Intended Recipient:** First Street Blvd. (Rt. 110), Lowell, MA 01850

**Description:** The requested funding will be used by the Lowell Regional Wastewater Utility for the design and construction of a Plasma Assisted Sludge Oxidation system and a waste heat recovery and steam powered generator system. When combined, these two systems will significantly reduce the volume of waste sludge that is generated by the wastewater treatment plant and will capture waste heat from the sludge reduction process to generate electricity for use at the plant from a renewable energy source. Reduction in waste sludge reduces the costs and environmental impacts associated with offsite dewatered sludge disposal. Similarly, the capture and reuse of the heat will lower energy costs for the wastewater treatment facility.

**Project Name:** Nuclear Power Operator Simulator

**Request Amount:** \$1,700,000

**Intended Recipient:** Massachusetts Maritime Academy

**Full Street Address of the Intended Recipient:** 101 Academy Drive, Buzzards Bay, MA 02532

**Description:** The requested funding will be used by the Massachusetts Maritime Academy ("MMA") for the installation of a nuclear power operator simulator to assist in the training of its nuclear engineering students. Simulators provide students with hands-on experience in an efficient, controlled and carefully choreographed environment. As nuclear power is experiencing resurgence, a nuclear simulator at MMA would help train future nuclear engineers to replace a generation of retiring nuclear engineers. Additionally, MMA is a key part of a network of six state maritime academies, which produce about 70% of America's newly licensed officers each year. MMA graduates help meet the manpower requirements of the commercial sealift industry and DOD and its Military Sealift Command, playing an integral role in providing for the country's national security.

## Financial Services

**Project Name:** The Vetrepreneurship Initiative

**Request Amount:** \$350,000

**Intended Recipient:** Northeast Veterans Business Resource Center

**Full Street Address of the Intended Recipient:** 360 Merrimack Street, Lawrence, MA 01843

**Description:** Funding will be used to pay for critically needed training, business support, counseling and outreach through the NVBRC's Massachusetts Business Center. The program is known as the "Vetrepreneurship Initiative, Returning Warriors Building Tomorrows Businesses Today." Through this program, the Business Center offers state-of-the-art business courses and training programs as well as workshops, seminars, and mentoring by area business professionals. These services include, but are not limited to, technology workshops, financial literacy, marketing research, accessing capital, and federal procurement/government contracting. The funding would be used to assist veterans, veterans with disabilities as a result of their military service, members of the Guard or Reserve, and their family members, to become self supportive through small business ownership.

## Homeland Security

**Project Name:** Advanced Electron Accelerator for Non-Intrusive Detection of Weapons of Mass Destruction

**Request Amount:** \$3,960,000

**Intended Recipient:** University of Massachusetts Lowell

**Full Street Address of the Intended Recipient:** Two Solomon Way, Lowell, Massachusetts 01854

**Description:** The requested funding will be used by the University of Massachusetts-Lowell (UML) to build and deploy a state-of-the-art electron accelerator and detection modules for the identification of Weapons of Mass Destruction (WMDs), contraband, explosives, toxic and radiological materials. The research will support the development of a capability to automatically and immediately identifying materials that are undetectable via existing X-ray technology, complying with the 100% cargo inspection (P.L. 110-53). The 1 mega-watt UML research reactor is one of only 26 in the US and the only one in a public university in the northeast. The addition of this accelerator provides an important and unique detection capability. This funding will allow UML to recruit and train undergraduate and graduate students in the fields of nuclear science, nuclear engineering and forensics and will invite further academic and government agency collaboration. Over a multi-year period, hundreds of quality Massachusetts based technology and homeland security jobs will result, as this technology becomes the global standard for interdiction of dangerous cargo. This project will create approximately 25 high

paying, skilled jobs in Massachusetts allowing the Commonwealth to remain competitive in the Homeland Security marketplace.

## Interior

**Project Name:** 495/MetroWest Water Resources Strategy: Phase 2

**Request Amount:** \$300,000

**Intended Recipient:** 495/MetroWest Partnership

**Full Street Address of the Intended Recipient:** 200 Friberg Parkway, Suite 1003, Westborough, MA 01581

**Description:** The requested funding will be used for Phase 2 of the 495/MetroWest Water Resources Strategy. Phase 2 of the 495/MetroWest Water Resources Strategy includes four tasks: technical assistance to municipalities in the 495/MetroWest region for implementation of sustainable water resources management tools; expanded implementation of the Greenscapes Program to the Sudbury-Assabet-Concord Watershed; hydrologic analysis of water management alternatives for the Assabet and Sudbury River Watersheds; and regional outreach and technical workshops on sustainable water management techniques such as water reuse, low impact development, and peak season demand management. Water supply and wastewater management have been identified by regional organizations and state officials as important factors in shaping growth patterns. More recently, wastewater management and limited access to water have inhibited sustainable growth and development in the 495/MetroWest region. Identifying best practices, opportunities for efficiencies, and sustainable water resource management tools will benefit the continued economic vitality of the region in addition to enhancing quality of life for residents. Moreover, this project will assist fiscally constrained municipalities in the region with updating water management practices and reducing stress on limited water resources through Low Impact Development, water reuse and Greenscape programs that also complement stormwater management efforts.

**Project Name:** Spalding House Renovation

**Request Amount:** \$125,000

**Intended Recipient:** Lowell Parks and Conservation Trust

**Full Street Address of the Intended Recipient:** 11 Kearney Square, 4<sup>th</sup> floor, P. O. Box 7162  
Lowell, MA 01852

**Description:** The requested funds would be used to restore the interior of the Spalding House to its original 18th Century appearance. The Lowell Parks and Conservation Trust is working on a four-phase restoration plan to return the Spalding House to active use as a museum and urban environmental education center. The Trust has a unique mission to improve the quality of life for the people of Lowell through the creation, conservation, and preservation of parks, open spaces, and special places. The Trust's chief vehicle for presenting an historic perspective is through the Spalding House that was donated to us in 1996 by the Molly Varnum Chapter of the Daughters of the American Revolution (DAR). Educating adults and children about the natural environment and how it relates to their everyday life is an important part of that mission.

**Project Name:** Combined Sewer Overflow (CSO) Abatement and Sewer Infrastructure Improvements Program

**Request Amount:** \$1,000,000

**Intended Recipient:** Lowell Regional Wastewater Utility

**Full Street Address of the Intended Recipient:** First Street Blvd. (Rt. 110), Lowell, MA 01850

**Description:** The requested funding will be used for the construction of new drains and sewers to separate the City of Lowell's existing combined sewer system and reduce CSOs, in compliance with the Clean Water Act and a USEPA Consent Decree (1988). The City of Lowell operates a regional sewer collection and treatment system that serves Lowell, Dracut, Tyngsboro, Tewksbury and Chelmsford, Massachusetts (service population is nearly 200,000 people, with 100,000 in Lowell). When it rains, the system is overwhelmed with excess flow that causes street flooding and residential sewer back-ups, causing significant public and private property damage. Excess stormwater flow is also discharged into the Merrimack/Concord Rivers, via nine CSO outfalls. The CSOs contain raw sewage which impacts the river water quality and reduces the recreational and aesthetic benefits of these rivers. The existing collection and treatment systems are reaching the end of their useful life (portions are more than 100 years old) and are failing. Renewal of the existing infrastructure is an important facet of the city's CSO abatement program to reduce CSO discharges and ensure that residents are not unnecessarily exposed to the human health risk of raw sewage. The requested funding will help the city continue to implement this federally mandated CSO abatement program.

## Labor-Health and Human Services-Education

**Project Name:** Good Neighbor Healthy Heart Screening Initiative

**Request Amount:** \$380,000

**Intended Recipient:** Cardiac Arrhythmia Syndromes Foundation

**Full Street Address of Intended Recipient:** 300 Ballardvale St., Suite 201, Andover, MA 01810

**Description:** The requested funding will be used to execute a Good Neighbor Healthy Heart Screening Initiative to educate and train students and school personnel in several school districts in the 5<sup>th</sup> congressional district of Massachusetts regarding the benefits of preparedness and prevention in reducing sudden cardiac arrest in the adolescent population. The proposed Good Neighbor Initiative would involve the education and training components of CASF's SafeBeat prevention program. This will lead to partnerships with local hospitals and private sponsors to conduct voluntary, opt-in ECG heart screening programs. The requested funds would be used to purchase equipment and materials necessary to execute the education and training components of the initiative, as well as the preventative ECG heart screenings critical to early detection and prevention of SCA. Specifically, CASF would use the funds to purchase ECG devices, automated external defibrillators (AEDs), training manikins, computers, vehicles, trailers and education materials. The initiative would involve 14 Massachusetts school districts with nearly 85,000 students, including approximately 39,840 students in the 5<sup>th</sup> Congressional District in the Haverhill, Lawrence, Lowell and Methuen districts.

**Project Name:** Expansion of Mental Health Capacity in Massachusetts Schools

**Request Amount:** \$750,000

**Intended Recipient:** Children's Hospital Boston

**Full Street Address of the Intended Recipient:** 300 Longwood Ave., Boston, MA 02115

**Description:** The requested funding will be used to expand the mental health capacity of Massachusetts schools to four additional regions including the Assabet Valley. Children's Hospital Boston proposes a comprehensive approach to increase the capacity of Massachusetts schools to deal with mental health concerns that manifest in school settings. The project would offer monthly professional development workshops focusing on mental health and school settings. The project will also enhance access across the state to existing parent advocacy resources, including a hotline offering guidance to parents with specific questions about navigating the mental health system and assistance in finding an appropriate provider for their child. Additionally, this project will convene a state conference on school-based mental health, attended by school nurses, student support staff, and guidance counselors.

**Project Name:** Family Finance Solutions

**Request Amount:** \$500,000

**Intended Recipient:** Community Teamwork, Inc.

**Full Street Address of the Intended Recipient:** 167 Dutton Street, Lowell, MA 01852

**Description:** The requested funding will be used to support and expand CTI's Family Finance Solutions programs. FFS incorporates a variety of outreach, media and face-to-face programming efforts to provide high quality financial education and training for working families at all income levels from throughout the Greater Lowell, Lawrence and Haverhill areas. Using this funding, every month FFS will offer at least 15 workshop sessions focused on smart financial decision making. Exact offerings change with each session but some examples of workshops are: EITC and VITA free tax prep services, Identity Theft Prevention, Teaching Your Children about Money, Saving for your Child's College Education, and Creating a Family Budget. The Family Finance Solutions programming has already benefited over 800 citizens in the Greater Lowell area in its first year. These individuals have received expert advice and information on making smarter decisions about their spending during the worst economic downturn in recent memory.

**Project Name:** Feasibility Study for Affordable Assisted Living for Seniors

**Request Amount:** \$50,000

**Intended Recipient:** D'Youville Senior Care

**Full Street Address of the Intended Recipient:** 981 Varnum Avenue, Lowell, MA 01854

**Description:** The requested funding will be used to conduct a comprehensive feasibility study of the development of a quality yet affordable assisted community to benefit seniors including those of low income means from the Greater Lowell community. A comprehensive feasibility study is needed to determine the revenue streams and cost saving measures of an affordable assisted living model. Additionally it will determine the maximum level of affordable units possible while maintaining fiscal solvency. Preliminary studies reveal that there is a lack of quality affordable housing for seniors in Massachusetts and that the demand is great. D'Youville would like to help fill this gap in the community by constructing such a community here. This would be a place for seniors off all economic levels to live and carry on with their lives in a safe, secure, vibrant senior community.

**Project Name:** Emerson Hospital Special Care Nursery

**Request Amount:** \$2,842,000

**Intended Recipient:** Emerson Hospital

**Full Street Address of the Intended Recipient:** 133 Old Road to Nine Acre Corner Concord, MA 01742

**Description:** The requested funding will be used for construction and renovation of the Special Care Nursery. Emerson is a 179-bed hospital which provides advanced medical services to more than 300,000 individuals in 25 towns. Emerson is well known for its outstanding nursing care and patient-centered facilities, including the Birthing Center and Special Care Nursery. The Special Care Nursery cares for more than 250 infants annually who are born prematurely or who have medical complications at birth. It is the only Special Care Nursery in the area, which provides 24-hour in-house coverage by pediatricians and anesthesiologists. Because of the demand, the current facility has exceeded existing capacity. The

project will improve and expand the specialized medical care that Emerson Hospital's Special Care Nursery provides to sick and premature infants from the twenty-five towns served by Emerson Hospital. The project will also create both temporary construction and permanent jobs at Emerson Hospital. Emerson Hospital is a nonprofit charitable organization and one of the region's largest nonprofit employers.

Project Name: GLFHC Administration Building

Request Amount: \$250,000

Intended Recipient: Greater Lawrence Family Health Center

Full Street Address of the Intended Recipient: 34 Haverhill Street, Lawrence MA 01841

Description: The requested funding will allow GLFHC to renovate the building they plan to purchase and move the administration to the new building, which will also house a pharmacy and a wellness center. This will relieve overcrowding and capacity issues at the administration's current location, and will allow for an additional 10-12 exam rooms to be added. The additional capacity will result in an increased primary care access for GLFHC's 43,000 patients from Greater Lawrence and could add as many as 1,500 visits a week to our current operations. Allowing for increased walk-in capacity and acute care (sick) visits will also contribute to local Emergency Room diversion, reducing the incidents of GLFHC patients using ERs for non-emergent care. This also contributes to a continuity of care for our patients.

Project Name: Horizons for Homeless Children's Playspace Programs

Request Amount: \$120,000

Intended Recipient: Horizons for Homeless Children

Full Street Address of the Intended Recipient: 60 Island St., Lawrence, MA, 01840

Description: The requested funding would support the operations of the 18 Horizons for Homeless Children Playspace Programs located in the 5th Congressional District. Roughly 150 volunteers provide approximately 270 homeless children in shelters with the opportunity to benefit from developmentally-appropriate learning and developmental opportunities. This assistance mitigates the harmful lifelong impact of homelessness on these children. Horizons for Homeless Children also connects homeless parents with the tools they need to achieve social and economic self-sufficiency thereby improving the long-term prospects of their children.

Project Name: Emergency Department and Level II Trauma Center Renovation and Expansion

Request Amount: \$3,300,000

Intended Recipient: Lahey Clinic

Full Street Address of the Intended Recipient: 41 Mall Road, Burlington, MA 01805

Description: The funds would be used to directly support expansion and renovation efforts for the Lahey Clinic Emergency Department, including increased capacity to handle large scale emergency situations. Lahey continues to experience higher than average ambulance diversion rates even as it functions as a critical acute care hospital in the State Emergency Preparedness/Disaster Plan. If the City of Boston experienced a Mass Casualty/Bioterrorism event that severely disabled the EMS/hospital system, Lahey Clinic would become a critical tertiary care hospital because of our geographic/suburban proximity and clinical capability. The current physical plant housing Lahey's Emergency Department lacks infrastructure and security features essential to patient and staff safety, particularly in the event of an airborne threat to public health and safety. Funding would be used to: achieve an independent air handling and control system separate from the main hospital to protect against bio-terrorism airborne contaminants and/or pandemic environmental conditions; increase Emergency Department capacity in order to reduce overall ambulance diversion rates and improve surge capacity; create a separate, dedicated decontamination area for the care of patients requiring this measure; and establish a permanent Security office/presence in the ED and install additional access and alarm systems to protect the staff and patients.

Project Name: Lowell Community Health Center's Expansion Project

Request Amount: \$2,000,000

Intended Recipient: Lowell Community Health Center

Full Street Address of the Intended Recipient: 585 Merrimack Street, Lowell, MA 01854

Description: Lowell Community Health Center (LCHC) seeks additional federal funding to complete its facility expansion project. Specifically, LCHC's new health care facility will accomplish the following key objectives: provide medical and behavioral health services for over 42,000 individuals, including 10,000 new underserved patients; nearly double the number of patient visits, with a goal of serving 148,000 visits annually; consolidate staff and services from multiple sites in one location to increase efficiency and cost-effectiveness; nearly triple overall square footage for operations; more than double the number of exam rooms (from 37 to 89 rooms); design the new space to promote the integration of behavioral health and primary care; add a walk-in Urgent Care Center as an alternative to seeking more expensive care at a local emergency room; expand operating hours, and add pharmacy and specialty medical care services. LCHC has been successful in raising nearly 40% of the \$31.4 million in total project costs. Following expansion, the Health Center will have adequate space to hire additional providers to serve the unmet health care needs of an additional 10,000 Lowell residents who currently do not receive on-going primary care and behavioral health services.



Project Name: Lowell General Hospital Facility Expansion

Request Amount: \$2,000,000

Intended Recipient: Lowell General Hospital

Full Street Address of the Intended Recipient:

Description: The requested funding will be used to support the construction and purchase of equipment associated with the Lowell General Hospital facility modernization and expansion effort. The Hospital will break ground in May 2010 on a new six-story building. The expansion will provide private rooms, a new hospital entrance, a new Emergency and Trauma Center with a dedicated area for pediatric patients and future growth areas for Surgical Services, expanded patient parking and seamless access to outpatient services. Lowell General's expansion will be the largest single private investment in the City of Lowell in decades with an overall economic benefit of \$200 million. It will create 337 full-time equivalent (FTE) construction jobs, 158 FTE's in the region and 228 new employees at the Hospital. The project will infuse considerable economic activity into the region at a critical juncture. It will enhance access, comfort and quality of health care in a low cost setting.

Project Name: Middlesex Community College Dental Hygiene Clinic Modernization Project

Request Amount: \$450,000

Intended Recipient: Middlesex Community College

Full Street Address of the Intended Recipient: 33 Kearney Square, Lowell, MA 01852

Description: The requested funding will be used to complete the modernization of Middlesex Community College's Dental Hygiene Clinic. The Clinic provides critical free and low-cost dental services to uninsured seniors and children throughout the region. The funding would be used to upgrade training equipment for the students in the dental hygiene program which must be brought up to current industry standards to allow the college to continue to provide oral health care to the most vulnerable populations in our community. Student learning and opportunity for faculty teaching may be compromised due to needed clinical repairs and upgrades. Technology, clinic infrastructure, and lack of updated and modern equipment challenge the effectiveness of serving the public and the ability to prepare and provide the public with the very best qualified, competent dental hygienists. The requested funding will be used to replace and modernize outdated dental and related science educational equipment to allow the college to continue to provide needy residents throughout the region with essential oral health care services.

Project Name: UMass Lowell Cooperative Education Program

Request Amount: \$400,000

Intended Recipient: University of Massachusetts Lowell

Full Street Address of the Intended Recipient: Two Solomon Way, Lowell, Massachusetts 01854

Description: The requested funding will be used to continue the cooperative education program at the University of Massachusetts Lowell for both the undergraduate and graduate level in areas that are vital to economic development. The Cooperative Education Program at UMass Lowell provides an opportunity for students to alternate semesters of academic study with semesters or summers of paid, career-related, engaged-learning experience. Cooperative education represents a three-way partnership between the University, the student, and the participating industry, business or government agency. Each student's co-op is monitored by the faculty and professional co-op staff to ensure a mutually beneficial experience between the student and employer. Having the opportunity to translate classroom experience into real-world applications enhances students' academic performance and helps them make an informed assessment of major and career choices. Importantly, this practice-oriented education provides the skills that employers state are needed for success in the workplace including team-work and effective communication. Students in co-op programs have the added advantage of helping finance their education while building solid professional networks and meeting potential employers in their field.

Project Name: Utilization review and improvement of the use of electronic health records by physicians in the Lower Merrimac Valley

Request Amount: \$300,000

Intended Recipient: Wellport

Full Street Address of the Intended Recipient: 18 Highland Ave, 2nd Floor, Newburyport, MA 01950

Description: The requested funding would be used to design and implement a study that will analyze the manner and degree in which physicians, in a full range of settings and specialties, use an electronic medical records system, with the ultimate goal of using the study's results to help other communities maximize the utility of new electronic health record systems. Over the last three years, Wellport installed electronic health records (EHRs) in 95% of area physician offices and is creating an electronic health information exchange to enable these physicians to communicate securely while protecting patient privacy and greatly improving the care patients receive. Additionally, this program will help physicians practicing in greater Haverhill understand how to maximize the functionality of their EHR, allowing these physicians to utilize important features such as health information exchange and ePrescribing. These functions not only deliver better patient care, but use of these tools is also a requirement to receive federal incentive payments through ARRA. This project's success will ensure that area physicians meet requirements of "Meaningful Use," creating the opportunity for an additional \$5-7M in stimulus money to enter the district.

## Transportation-Housing and Urban Development

Project Name: Downtown Commuter Parking and Pedestrian Improvements

Request Amount: \$5,000,000

Intended Recipient: Town of Ayer

Full Street Address of the Intended Recipient: 1 Main Street, Ayer, MA 01432

Description: Funding would be used for the construction of the "Downtown Commuter Parking and Pedestrian Improvements" project including 400-450 space parking facilities to serve the commuter rail station, trailhead of the Nashua River Rail Trail, and historic central business district of Ayer. The improvements will serve both regional rail commuters and the downtown business district located on state Routes 2A and 111. Recreational users of the popular Nashua River Rail Trail, which will directly link to the new parking facility and rail station, will also benefit from this multi-modal transportation hub. This project will provide needed parking for regional commuters that work in the metro-Boston area, as well as vital linkages to the multi-state Nashua River Rail Trail and the many retail, dining and institutional opportunities mentioned above.

Project Name: Union Crossing Phase 2

Request Amount: \$350,000

Intended Recipient: Lawrence Community Works

Full Street Address of the Intended Recipient: 168 Newbury Street, Lawrence, MA

Description: The requested funds will be used to support staff and consultant costs for planning and design work as part of the second phase of the Union Crossing project. Specifically, the requested funds will allow LCW to hire architects, engineers, and other project consultants to complete master planning and design work for the Duck Mill property located at 4 Union Street in Lawrence. This will build on the work already completed for the first phase of Union Crossing (located across the street at the former Southwick mill) which is slated to break ground this spring. The requested funds for the second phase of Union Crossing are critically important to the overall project, as they will help to leverage additional resources for design and construction of the Duck Mill. Lawrence Community Works, a non-profit Development Corporation, is leading the effort to transform a complex of former industrial mill buildings along the Merrimack River into a sustainable mixed-use neighborhood including family and workforce housing, commercial space, and community facilities. The project will renovate a currently vacant building in the historic downtown area and generate new tax revenues for the City of Lawrence. Both phases of development at Union Crossing will help to catalyze additional investment in the City's historic mill district, and set a high standard for the development of affordable, energy-efficient, and healthy communities across the Commonwealth of Massachusetts.

Project Name: Hamilton Canal District

Request Amount: \$5,000,000

Intended Recipient: City of Lowell

Full Street Address of the Intended Recipient: 50 Arcand Drive, JFK Civic Center, Lowell, MA 01852

Description: The requested funds will support the design, construction and related work needed to support the Hamilton Canal District (HCD) infrastructure. The HCD is a unique public/private partnership between the City and Trinity Financial of Boston, which will transform 17 acres of vacant industrial land into a vibrant urban mixed-use neighborhood. The site is located at the gateway to Downtown Lowell and will reconnect Lowell's historic downtown and National Park with the City's major transportation infrastructure, including the Gallagher Intermodal Transportation Terminal and the Lowell Connector Highway. The project will create nearly 2 million square feet (SF) of new and reused commercial and residential building space, supporting up to 425,000 SF of commercial space, 55,000 SF of retail space, and 725 units of housing. Due to the momentous scale of the project, significant roadway and pedestrian infrastructure upgrades are needed to support the redevelopment on both local and regional roadway systems.

Project Name: Canalway/Riverwalk

Request Amount: \$1,000,000

Intended Recipient: Lowell National Historical Park

Full Street Address of the Intended Recipient: 67 Kirk Street, Lowell, MA 01852

Description: The requested funding would be used for design and construction of the Canalway/Riverwalk urban greenway system in downtown Lowell. This project will involve the development of the 'Mile of Mills' Riverwalk from its current terminus at the historic Boott Mills complex to the Concord River and Lower Locks area and development of the Lowell Canalway, a linear park and walkway along Lowell's 5.6-mile historic power canal system. The extended Riverwalk will provide connections to historic and cultural resources located within the Lowell National Historical Park. The Riverwalk design includes a linear walkway constructed above the city's sewer interceptor, linking several access points and rest nodes. The project will include development of railings, lighting, and seating systems, canopies, benches, and trash receptacles. The Canalway project will involve development of a pedestrian walkway along the canal edge with provisions

for handicapped accessibility at street crossings, replacement of iron picket fence with code compliant canal railing, and general landscape and site improvements.

Project Name: Intermodal Transit Parking Facility in the City of Haverhill

Request Amount: \$1,000,000

Intended Recipient: Merrimack Valley Regional Transit Authority

Full Street Address of the Intended Recipient: 85 Railroad Avenue Haverhill, MA 01835

Description: The requested funding would be used to support the construction of a 285 car capacity parking facility adjacent to the present Commuter Rail Station in downtown Haverhill. This parking facility will provide much needed expansion parking for commuter rail use and to provide nights/weekends parking in support of ongoing residential development in the downtown section of Haverhill. The parking facility will also function as an economic catalyst of public investment for this section of the City. The construction of this parking facility will also further the Commonwealth's stated goals of revitalizing older urban areas and using public investment as a catalyst for further economic development by the private sector.

Project Name: Study and Design Review for the Boston and Maine Railroad Depot

Request Amount: \$550,000

Intended Recipient: Middlesex Community College

Full Street Address of the Intended Recipient: 33 Kearney Square, Lowell, MA 01852

Description: The requested funding would be used to complete an architectural study and design review of the Boston and Maine Railroad Depot, also known as the Rialto building, to accommodate a planned expansion of the college's downtown Lowell academic programs to meet the need of the college's rising enrollments, relocate the college's performing arts and music programs and create a community access space. The revitalization of this historic building is expected to contribute to improvements in the Jackson-Appleton-Middlesex (JAM) area of downtown Lowell, and contribute to the overall improvement of the adjacent Hamilton Canal district revitalization.

Project Name: Littleton Intermodal Parking Facility

Request Amount: \$1,200,000

Intended Recipient: Massachusetts Bay Transportation Authority

Full Street Address of the Intended Recipient: 10 Park Plaza, Boston, MA 02116

Description: This project will improve parking and intermodal transportation services for Littleton and the surrounding community. The existing commuter rail station is served by less than 50 public spaces and with the renovation of the station as part of the Fitchburg Commuter Rail Improvement Project nearly half the public parking spaces will be lost. This project will expand parking capacity to over 200 spaces thereby enhancing the utilization of the commuter rail station. The facility will also support bus transportation service from the region. Providing a regional parking facility at the site will further increase utilization of this important regional intermodal transportation. Increased use of public transportation has multiple benefits to the community and region, including reductions in GHG emissions, reduced traffic growth, and better utilization of the MBTA commuter rail system.

Project Name: Youth Center Building Project

Request Amount: \$1,000,000

Intended Recipient: United Teen Equality Center

Full Street Address of the Intended Recipient: 34 Hurd Street, Lowell, MA 01852

Description: The requested funding will be used support the renovation of an existing historic building and construction of a new 3-floor addition (7,500 square foot) attached to the existing building to serve as the home for the United Teen Equality Center. Funding from this request will be used to cover both hard and soft costs for the renovation of the existing building and construction of the new building, as well as various furnishings and equipment. The overall building will include a new commercial kitchen and café open to the community on the first floor, a performance center on the second floor including audio and video production, and new classrooms for our alternative education programs on the third floor. The project will increase UTEC's capacity to implement additional workforce development programs in the areas of culinary arts, green jobs training, and new social enterprises centered on maintenance and landscaping for young people ages 16-23. The UTEC center will be the first LEED Platinum certified green building in downtown Lowell, specifically serving as a community education center for green design. This project is also uniquely positioned to utilize an existing pre-apprenticeship program.